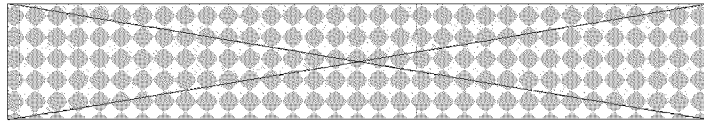


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Hydraulic Fracturing Science Update and Frontiers

- Cosponsored by the Environmental Law Institute (ELI)
- Thursday
- November 29, 2012
- 12:30 - 2:00 pm Eastern

Register: | [Telephone Seminar](#) | [Audio Webcast](#) | [Group Rates](#)

[Sign up here to be notified when the online version of this course is posted](#)

Why You Should Attend?

Economical shale drilling is possible only because of technological breakthroughs. Opponents have raised various technical and scientific objections about the risks of using hydraulic fracturing. Because the science and technology of fracturing provides the backdrop for both sides of citizen suits as well as future policies, attorneys involved in these cases need to have a working knowledge of what may be the central evidence in dispute in order to adequately represent their client's interests.

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What You Will Learn

This panel will review the leading edge of scientific investigations into and technological innovations for shale drilling, including:

Update on EPA's study on groundwater impacts of hydraulic fracturing

Results of EPA's recent field data from Pavillion, Wyoming and Dimock, Pennsylvania

Status of "no-water" and other fracturing and extraction technologies

Status of flowback and produced water treatment and disposal

Status of Green Completions, methane capture, and air quality

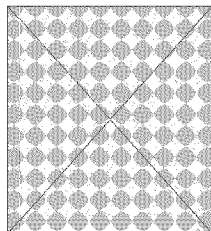
Science around seismic risks

THE SERIES

This program is the second in a 5-part series, Environmental Impacts of Shale Development and Hydraulic Fracturing: Key Legal Issues and Future Directions, that offers an in-depth examination of the environmental law and policy issues facing companies, governments, activist groups, and citizens who are concerned about this critical area of our nation's energy infrastructure. Each program is taught by the nation's foremost experts, and will present a balance of perspectives on the legal and policy issues, as well as upcoming trends that may accelerate or slow the dramatic expansion in shale development in an environmentally responsible way. Note that you do not have to participate in the entire series to benefit from the information provided in each individual program. Part three of the series, State and Regional Regulatory Trends in Hydraulic Fracturing, will be on December 14.

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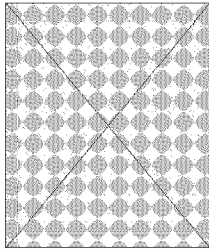
Planning Chair



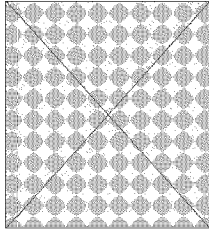
L. Brun Hilbert, Jr., Ph.D., P.E., Principal Engineer, Exponent, Menlo Park, California (*moderator*)

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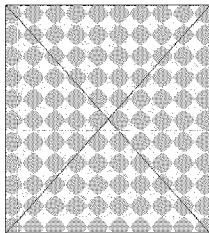
Faculty



George Jugovic, Jr., President & CEO, PennFuture, Pittsburgh



R. Timothy McCrum, Crowell & Moring LLP, Washington, D.C.



John D. Schell, Ph.D., Principal Scientist, Toxicology & Mechanistic Biology,
Exponent, Houston

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Program Schedule

All times Eastern

12:30 p.m. **Program Begins**

2:00 p.m. **Adjournment**

Total 60-minute hours of instruction: 1.5; total 50-minute hours, 1.8. For more information on CLE credits for a particular jurisdiction, click on the "Mandatory CLE Credit" link in the box titled, "Course Details," at the top left of this web page.

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Eastern 12:30 pm – 2:00 pm

Central 11:30 pm – 1:00 pm

Mountain 10:30 am – 12:00 pm

Pacific 9:30 am – 11:00 am

Alaska 8:30 am – 10:00 am

Hawaii 7:30 am – 9:00 am

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